

Claims:

1. A casing for an injection device of the type which comprises
5 a cartridge containing a medicament for injection and having an orifice at one end thereof through which the medicament may be driven for injection through a patient's skin,
drive means for driving the medicament through the patient's skin
a trigger means operable to cause the drive means to act,
10 a safety means which in a first configuration prevents the drive means from acting and in a second configuration allows the drive means to act,
wherein
the casing is adapted to enclose the device,
and the casing incorporates an actuator means by which the safety means of an
15 injection device enclosed therein can be brought from its first configuration into its second configuration.
2. A casing according to claim 1 wherein the actuator means has a part exposed
20 to the outside of the casing and accessible to the user, and to which part the user may apply operating force to bring the safety means into its second configuration.
3. A casing according to claim 2 wherein the actuating means is constructed to
bear upon the safety means and thereby apply actuating force to the safety means to
25 bring the safety means into its second configuration.
4. A casing according to claim 3 wherein the actuator means comprises a button,
tongue or lever which the user may press inwardly to cause the actuator means to bear
upon the safety means and thereby bring the safety means into its second
30 configuration.
5. A casing according to any one of claims 1 to 4 wherein the actuator means is resiliently connected to the casing such that on application of operating force to the actuator means the actuator means operates against the resilient bias.

6. A casing according to any one of claims 1 to 4 wherein the actuator means
comprise a means to apply a pulling force to the safety means to pull the safety means
5 from its first configuration into its second configuration.

7. A casing according to any one of the preceding claims having retaining means
to retain the safety means of an enclosed injection device in its second configuration
after the safety means has been brought into its second configuration.

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8. A casing according to claim 1 wherein the actuator means comprises a
window in the casing through which the safety means may be actuated.

9. A combination of:
15 a casing according to any one of the preceding claims;
and enclosed within the casing;
an injection device of the type which comprises a cartridge containing a
medicament for injection and having an orifice at one end thereof through which the
medicament may be driven for injection through a patient's skin, drive means for
20 driving the medicament through the patient's skin, a trigger means operable to cause
the drive means to act, and a safety means which in a first configuration prevents the
drive means from acting and in a second configuration allows the drive means to act.

10. A combination according to claim 9 wherein the safety means prevents the
25 drive means from acting in its first configuration by preventing the trigger means
from operating.

11. A combination according to claim 10 wherein the safety means comprises an
obstructor part which in the first configuration obstructs, and in the second
30 configuration allows, the movement of a moveable trigger part.

12. A combination according to any one of claims 9 to 11 wherein the safety
means comprises a collar shaped to at least partly surround the injection device, and

moveable from its first configuration into its second configuration in a direction generally perpendicular to the direction in which the medicament is dispensed, the collar incorporating an obstructor part.

- 5 13. A combination according to any one of claims 9 to 12 wherein the safety means, or at least the obstructor part, is biased to be retained in its first configuration and is movable against this bias into its second configuration.
- 10 14. A combination according to claim 10 or 11 wherein the safety means comprises a removable obstructor part.
- 15 15. A combination according to claim 14 wherein the safety means comprises a tear-off band.
- 20 16. A combination according to any one of claims 9 to 15 wherein the trigger means is provided by two relatively moveable upper and lower sleeve parts which on relative movement allow the drive means to act, and the safety means comprises an obstructor part which in its first configuration obstructs, and in its second configuration allows, the relative movement of these sleeve parts.
- 25 17. A combination according to claim 16 wherein the safety means comprises an obstructor part which is brought from its first configuration to its second configuration by a movement of the obstructor part in a direction perpendicular to the direction of relative movement of the two sleeves.
- 30 18. A combination according to claim 17 wherein the safety means comprises a collar shaped to at least partly surround the injection device, and moveable from its first configuration into its second configuration in a direction perpendicular to the direction of relative movement of the two sleeves, the collar incorporating an obstructor part which in the first configuration is situated between the two sleeves to obstruct the relative movement, and in the second configuration is displaced in a direction perpendicular to the direction of relative movement of these two sleeves to thereby allow the relative movement of these sleeves.

19. A casing for enclosing a container of a medicament of the type having an opening at one end through which the medicament may be accessed for dispensing and the opening being closed prior to use by a break-off tip,

5 the casing comprising relatively moveable first and second casing parts, being a first casing part adapted to hold the container, and a second part adapted to bear upon the break-off tip of a container held by the first casing part as a result of such relative motion to apply a force thereto causing the break-off tip to break off from the container.

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20. A casing according to claim 19 wherein the first casing part is elongated along a longitudinal axis, the first casing part is adapted to hold the container non rotatably relative thereto, and the second part can be moved in rotary motion relative to the first part so as to bear on the break-off tip of a container held by the first casing part, and
15 to apply a twisting shearing force to a frangible joint between the break-off tip and the container.

21. A casing according to claim 20 wherein the first and second casing parts are
20 initially connected together by a screw thread or bayonet connection, so that un-connecting the connection applies a shear force to break off the tip of a container held by the first casing part, and also separates the first and second casing parts to hereby expose the opening for use.

25 22. A casing according to claim 20 wherein the rotary relative motion is about a rotation axis transverse to the longitudinal axis so as to apply a snapping force to the frangible joint.

23. A casing according to claim 20, 21 or 22 which comprises;
30 a casing for an injection device of the type which comprises a cartridge containing a medicament for injection and having an orifice at one end thereof through which the medicament may be driven for injection through a patient's skin, drive means for driving the medicament through the patient's skin, a trigger means operable to cause the drive means to act, a safety means which in a first configuration

prevents the drive means from acting and in a second configuration allows the drive means to act, and having its injection nozzle orifice closed prior to use by a break-off tip, wherein:

the casing is adapted to enclose the device,

5 and the casing incorporates an actuator means by which the safety means of an injection device enclosed therein can be brought from its first configuration into its second configuration, and

the casing comprises relatively moveable first and second casing parts, being a first casing part adapted to hold the injection device, and a second part adapted to bear
10 upon the break-off tip as a result of such relative motion to apply a force thereto causing the break-off tip to break off from an injection device enclosed within the casing.

24. A casing according to claim 23 wherein the first casing part is adapted to hold the injection device, and the first casing part is elongate and has an end opening, and
15 the second casing part comprises a removable cover for this end opening.

25. A casing according to claim 24 wherein the second casing part comprises a cover part over the actuator means which prevents operation of the actuator means until the cover part is removed.

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26. A casing according to claim 24 wherein the second casing part incorporates a locking means to lock the actuator means until the second casing part has been removed.

25 27. A casing according to claim 23 wherein the second casing part comprises the actuator means, so that the movement of the second casing part relative to the first casing part causes the safety means of an injection device enclosed within the casing to move from its first configuration to its second configuration.

30 28. A casing according to claim 23 wherein the second casing part comprises a safety means.

29. A casing according to claim 28 wherein the second casing means incorporates at least one obstructer part which functions to obstruct movement of a part of the

injection device, and which is moved from a first configuration to a second configuration by the relative movement of the second casing part.

30. A combination of a casing according to any one of claims claim 23 to 29 and
5 an injection device enclosed therein of the type wherein the cartridge has an opening at one end through which the medicament may be dispensed and the opening is closed prior to use by the break-off tip.